



8
3/19/04
Am

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as FIRST CLASS MAIL in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on January 21, 2004.

January 21, 2004
Date

Carrie Reddick
Signature: Carrie Reddick

PATENT

Attorney Docket No. **ULT-005-2C2P**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application)	<u>PATENT APPLICATION</u>
)	
Inventor(s): Malcolm G. Smith, Sr.)	
)	Art Unit: 2876
Application No.: 09/663,659)	
)	Examiner: Nowlin, April A.
Filed: 9/15/2000)	
)	
Title DATA STORAGE CARD HAVING A)	
NON-MAGNETIC SUBSTRATE AND DATA)	
SURFACE REGION AND METHOD FOR)	
USING SAME)	
)	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed document is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP § 609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56.

01/28/2004 SSANDARA 00000023 09663659

01 FC:2453 663.00 DA
02 FC:1806 180.00 DA

This statement qualifies under 37 C.F.R. § 1.97, subsection (b) because (check all that apply):

(1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)
-- OR --

(2) It is being filed within 3 months of entry of a national stage
-- OR --

(3) It is being filed before the mail date of the first Office Action on the merits.
-- OR --

(4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114

37 C.F.R. § 1.97(c). If this statement is being filed after the period specified in § 1.97(b), but before the mailing date of the earlier of a final office action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, then:

a certification as specified in § 1.97(e) is provided below; **or**

a fee of \$180.00 as set forth in § 1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

37 C.F.R. § 1.97(d). If this statement is being filed after the period specified in § 1.97(c), but on or before payment of the issue fee, then:

A. a certification as specified in § 1.97(e) is completed below; **and**

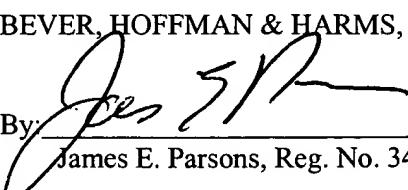
B. a fee of \$180.00 as set forth in § 1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

Fee Authorization. The Commissioner is hereby authorized to charge the above-referenced fees of \$180 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0574 (Docket No. ULT-005-2C2P).

Respectfully submitted,

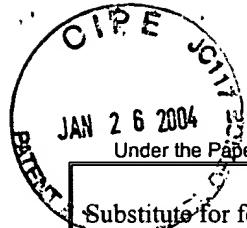
BEVER, HOFFMAN & HARMS, LLP

By:


James E. Parsons, Reg. No. 34,691

Dated: January 21, 2004

Telephone: (408) 451-5906
Customer No. 22888



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	14	Attorney Docket Number	ULT-005-2C2P
-------	---	----	----	------------------------	--------------

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B001	US- 1,756,547	04/1930	Hansen	
	B002	US-3,677,843	7/17/1972	Reiss	
	B003	US-3,838,252	9/24/1974	Hynes et al.	
	B004	US-3,864,755	2/1975	Hargis	
	B005	US-4,058,839	11/1977	Darjany, John C.	
	B006	US-4,076,125	2/28/1978	Ohsaki et al.	
	B007	US-4,100,689	7/1978	Broune	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
	B008	EP 0194675	9/1986			
	B009	WO 9210485	12/1992			
	B010	JP 10041118	4/1998			
	B011	JP 10144391 A	5/1998	Kanda		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

(One Page) Advertising Brochure, Iomega Clik! PC Card Drive (40 MB Disk) Iomega Corporation, 1999
Gooch et al. "A High Resolution Flying Magnetic Disk Recording System With Zero Reproduce Spacing Loss" Pages 4545-4554, IEEE Transactions on Magnetism, Volume 27, No. 6, November 1991
One (1) Page Advertising Brochure, SysTECH, Wallet Size CDROM, Copyright 1999
Three (3) Pages / Gold CD Mini ROM (Picture), Back/Front Packaging for CD Mini ROM AOL, America On Line

EXAMINER SIGNATURE:**DATE CONSIDERED:**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

14

Application Number

09/663,659

Filing Date

9/15/2000

First Named Inventor:

Malcolm G. Smith, Sr.

Examiner: Nowlin, April A.

GROUP: 2876

Attorney Docket Number **ULT-005-2C2P****U.S. PATENT DOCUMENTS**

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B012	US-4,104,682	8/1/1978	Lehner et al.	
	B013	US-4,141,400	2/27/1979	Mangan	
	B014	US-4,197,988	4/15/1980	Moss et al.	
	B015	US-4,209,811	6/1/1980	Blazevic	
	B016	US-4,277,809	7/7/1981	Fisher et al.	
	B017	US-4,302,523	11/1/1981	Audran et al.	
	B018	US-4,318,136	3/2/1982	Jeffers	
	B019	US-4,403,138	9/1/1983	Battarel et al.	
	B020	US-4,450,955	5/29/1984	Featherston	
	B021	US-4,503,125	3/1/1985	Nelson et al.	
	B022	US-4,518,627	5/1/1985	Foley et al.	
	B023	US-4,530,016	7/16/1985	Sawazaki	
	B024	US-4,535,369	8/13/1985	Sawazaki	
	B025	US-4,581,523	4/1/1986	Okuno	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

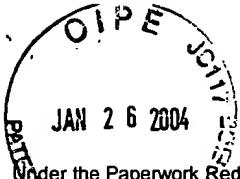
--	--

EXAMINER SIGNATURE:

DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.



JAN 26 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Application Number	09/663,659
				Filing Date	9/15/2000
				First Named Inventor:	Malcolm G. Smith, Sr.
				Examiner: Nowlin, April A.	GROUP: 2876
Sheet	3	of	14	Attorney Docket Number	ULT-005-2C2P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B026	US-4,585,929	4/29/1986	Brown et al.	
	B027	US-4,592,042	5/1/1986	Lemelson et al.	
	B028	US-4,598,196	7/1/1986	Pierce et al.	
	B029	US-4,609,812	9/2/1986	Drexler	
	B030	US-4,612,436	9/16/1986	Okada	
	B031	US-4,620,727	11/4/1986	Stockburger et al.	
	B032	US-4,659,915	4/1/1987	Flies	
	B033	US-4,672,182	6/1/1987	Hirokawa	
	B034	US-4,683,371	7/1/1987	Drexler	
	B035	US-4,687,712	8/18/1987	Sugita et al.	
	B036	US-4,701,601	10/20/1987	Francini et al.	
	B037	US-4,707,593	11/1/1987	Murata et al.	
	B038	US-4,718,697	1/1/1988	Berardus van Amelsfort	
	B039	US-4,731,645	3/1/1988	Parmentier et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE:	DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	4	of	14	Attorney Docket Number	ULT-005-2C2P
-------	---	----	----	------------------------	--------------

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
B040	US-4,754,128		6/1/1988	Takeda et al.	
B041	US-4,756,967		7/1/1988	Hashimoto et al.	
B042	US-4,774,618		9/27/1988	Raviv	
B043	US-4,777,540		10/11/1988	McCoy	
B044	US-4,780,604		10/1988	Hasegawa et al.	
B045	US-4,786,564		11/22/1988	Chen et al.	
B046	US-4,791,283		12/13/1988	Burkhardt	
B047	US-4,812,633		3/1989	Vogelgesang et al.	
B048	US-4,826,772		05/1989	Meathrel	
B049	US-4,833,310		05/23/1989	Shimamura et al.	
B050	US-4,851,610		07/25/1989	LeBlanc et al.	
B051	US-4,868,373		09/1989	Opheij et al.	
B052	US-4,877,488		10/1989	Cody et al.	
B053	US-4,889,755		12/1989	Charbonneau	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE:	DATE CONSIDERED:
---------------------	------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	5	of	14	Attorney Docket Number	ULT-005-2C2P
-------	---	----	----	------------------------	--------------

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B054	US-4,897,533	01/1990	Lysczarz	
	B055	US-4,931,623	6/5/1990	Nakamura et al.	
	B056	US-4,937,438	6/26/1990	Warwick et al.	
	B057	US-4,978,401	12/18/1990	Bonomi	
	B058	US-4,998,009	03/1991	Iijima et al.	
	B059	US-5,036,430	07/1991	Hills	
	B060	US-5,049,728	09/1991	Rovin	
	B061	US-5,099,111	03/1992	Takakura et al.	
	B062	US-5,107,099	04/1992	Smith	
	B063	US-5,172,282	12/1992	Ghose	
	B064	US-5,206,494	04/1993	Metzger	
	B065	US-5,227,212	07/1993	Ahlert et al.	
	B066	US-5,309,388	5/3/1994	Maruyama et al.	
	B067	US-5,311,003	5/10/1994	Saroya	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

--	--

EXAMINER SIGNATURE:

DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

C I P E
JAN 26 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Application Number	09/663,659
				Filing Date	9/15/2000
				First Named Inventor:	Malcolm G. Smith, Sr.
				Examiner: Nowlin, April A.	GROUP: 2876
Sheet	6	of	14	Attorney Docket Number	ULT-005-2C2P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2/if known}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B068	US-5,321,243	6/14/1994	Groves et al.	
	B069	US-5,336,871	10/9/1994	Colgate Jr.	
	B070	US-5,362,952	11/8/1994	Nair et al.	
	B071	US-5,396,369	5/7/1995	Deland Jr. et al.	
	B072	US-5,396,545	3/7/1995	Nair et al.	
	B073	US-5,397,886	3/14/1995	Mos et al.	
	B074	US-5,408,384	04/1995	Gannyo et al.	
	B075	US-5,410,136	4/25/1995	McIntire et al.	
	B076	US-5,421,618	6/6/1995	Okazaki et al.	
	B077	US-5,426,286	6/20/1995	Nair et al.	
	B078	US-5,431,746	7/11/1995	Manning et al.	
	B079	US-5,452,143	9/19/1995	Kamagami	
	B080	US-5,466,918	11/14/1995	Ray et al.	
	B081	US-5,480,685	1/2/1996	Suzuki et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5/if known}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE:	DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 7 of 14 Attorney Docket Number **ULT-005-2C2P****U.S. PATENT DOCUMENTS**

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B082	US-5,509,083	4/16/1996	Abtahi et al.	
	B083	US-5,521,774	5/28/1996	Parks et al.	
	B084	US-5,530,232	6/25/1996	Taylor	
	B085	US-5,535,078	7/9/1996	Warwick	
	B086	US-5,557,089	9/17/1996	Hall et al.	
	B087	US-5,559,885	9/24/1996	Drexler et al.	
	B088	US-5,588,763	12/31/1996	Nubson et al.	
	B089	US-5,598,474	1/28/1997	Johnson	
	B090	US-5,609,253	3/11/1997	Goade, Sr.	
	B091	US-5,612,526	3/18/1997	Oguchi et al.	
	B092	US-5,637,174	6/10/1997	Field et al.	
	B093	US-5,679,942	10/21/1997	Toyama	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

--	--

EXAMINER SIGNATURE: _____ **DATE CONSIDERED:** _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

Substitute for form 1449A/PTO				Application Number	09/663,659
				Filing Date	9/15/2000
				First Named Inventor:	Malcolm G. Smith, Sr.
				Examiner: Nowlin, April A.	GROUP: 2876
Sheet	8	of	14	Attorney Docket Number	ULT-005-2C2P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B094	US-5,679,945	10/21/1997	Renner et al.	
	B095	US-5,696,369	12/1997	Watanabe	
	B096	US-5,698,839	12/17/1997	Jagielinski	
	B097	US-5,713,406	2/3/1998	Drury	
	B098	US-5,714,747	2/3/1998	West et al.	
	B099	US-5,723,033	3/3/1998	Weiss	
	B100	US-5,734,154	3/31/1998	Jachimowicz et al.	
	B101	US-5,738,945	4/14/1998	Lal et al.	
	B102	US-5,748,737	5/5/1998	Daggar	
	B103	US-5,756,220	5/1998	Hoshino et al.	
	B104	US-5,763,862	6/9/1998	Jachimowicz et al.	
	B105	US-5,770,942	6/23/1998	Tagchi	
	B106	US-5,777,306	7/7/1998	Masuda	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE:	DATE CONSIDERED:
---------------------	------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

9

of

14

Application Number

09/663,659

Filing Date

9/15/2000

First Named Inventor:

Malcolm G. Smith, Sr.

Examiner: Nowlin, April A.

GROUP: 2876

Attorney Docket Number **ULT-005-2C2P****U.S. PATENT DOCUMENTS**

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ² <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B107	US-5,789,733	8/4/1998	Jachimowicz et al.	
	B108	US-5,801,368	9/1998	Hayashi et al.	
	B109	US-5,825,393	10/20/1998	Kocznar et al.	
	B110	US-5,828,053	10/27/1998	Kinugasa	
	B111	US-5,834,756	11/10/1998	Gutman et al.	
	B112	US-5,843,565	12/1/1998	Davies et al.	
	B113	US-5,844,218	12/1/1998	Kawan et al.	
	B114	US-5,844,230	12/1/1998	Lalonde	
	B115	US-5,851,688	12/22/1998	Chen et al.	
	B116	US-5,852,289	12/22/1998	Masahiko	
	B117	US-5,857,079	1/5/1999	Claus et al.	
	B118	US-5,859,419	1/12/1999	Wynn	
	B119	US-5,861,220	1/19/1999	Coughlin	
	B120	US-5,862,174	1/19/1999	Yokota et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ⁵ <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

--	--

EXAMINER SIGNATURE: DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

JAN 26 2004

CIPR
SAC

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Application Number	09/663,659
				Filing Date	9/15/2000
				First Named Inventor:	Malcolm G. Smith, Sr.
				Examiner: Nowlin, April A.	GROUP: 2876
Sheet	10	of	14	Attorney Docket Number	ULT-005-2C2P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B121	US-5,866,891	2/2/1999	Fujimoto et al.	
	B122	US-5,869,823	2/9/1999	Bublitz et al.	
	B123	US-5,880,445	3/9/1999	Mori et al.	
	B124	US-5,883,377	3/16/1999	Chapin, Jr.	
	B125	US-5,884,271	3/1999	Pitroda	
	B126	US-5,886,333	3/1999	Miyake	
	B127	US-5,889,273	3/1999	Goto	
	B128	US-5,895,903	4/1999	Abe et al.	
	B129	US-5,895,909	4/1999	Yoshida	
	B130	US-5,898,612	4/1999	Chen et al.	
	B131	US-5,901,012	5/1999	Ishida	
	B132	US-5,901,303	5/1999	Chew	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE:**DATE CONSIDERED:**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

CIPR
JAN 26 2004
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Application Number	09/663,659
				Filing Date	9/15/2000
				First Named Inventor:	Malcolm G. Smith, Sr.
				Examiner: Nowlin, April A.	GROUP: 2876
Sheet	11	of	14	Attorney Docket Number	ULT-005-2C2P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B133	US-5,941,375	8/1999	Kamens et al.	
	B134	US-5,979,774	11/1999	Urushibata	
	B135	US-5,997,042	12/1999	Blank	
	B136	US-6,079,621	6/2000	Vardanyan et al.	
	B137	US-6,116,655	9/2000	Thouin et al.	
	B138	US-6,131,816	10/2000	Smith, Sr.	
	B139	US-6,196,047	3/2001	Carnegie et al.	
	B140	US-6,254,713	7/2001	Riehle	
	B141	US-6,268,919	7/2001	Meeks et al.	
	B142	US-6,301,068	10/2001	Ionescu	

FOREIGN PATENT DOCUMENTS

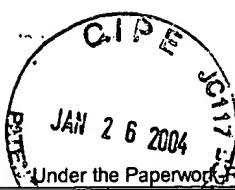
Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE:	DATE CONSIDERED:
---------------------	------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	12	of	14	Attorney Docket Number	ULT-005-2C2P
-------	----	----	----	------------------------	---------------------

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B143	US-6,311,893	11/2001	Liu et al.	
	B144	US-6,378,037	4/2002	Hall	
	B145	US-6,398,114	6/2002	Nishikawa et al.	
	B146	US-D264,853	6/1982	Scavino et al.	
	B147	US-D293,694	1/1988	Alden et al.	
	B148	US-D305,887	2/1990	Nishimura	
	B149	US-D328,457	8/1992	Matsuzaka	
	B150	US-D408,377	4/20/1999	Ferchau et al.	
	B151	US-D410,769	6/1999	Dorizas	
	B152	US-D425,876	5/2000	Maiers et al.	
	B153	US-D429,733	8/2000	Jones et al.	
	B154	US-D436,991	1/2001	Morgante	
	B155	US-D447,146	8/2001	Myers	
	B156	US-D448,776	10/2001	Weng et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
	B157	FR 2505523	12/11/1982	Widmer MJF		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)Bhushan, Bharat, *Tribology and Mechanics of Magnetic Storage Devices*, New York: Springer-Verlag, pp. 599, 629-638

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

P R O C E S S I N G
JAN 26 2004

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number 09/663,659
Sheet	13	of	14	Attorney Docket Number ULT-005-2C2P

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ² <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	B158	US-5,041,922	08/20/1991	Wood et al.	
	B159	US-5,055,155	10/08/1991	Crotty et al.	
	B160	US-5,101,097	03/31/1992	Conant	
	B161	US-5,147,732	09/15/1992	Shiroishi et al.	
	B162	US-5,180,640	01/19/1993	Yamashita et al.	
	B163	US-5,191,198	03/02/1993	Do	
	B164	US-5,204,513	04/20/1993	Steele	
	B165	US-5,206,489	04/27/1993	Warwick	
	B166	US-5,217,056	06/08/1993	Ritter	
	B167	US-5,221,838	06/22/1993	Gutman et al.	
	B168	US-5,254,843	10/19/1993	Hynes et al.	
	B169	US-5,270,523	12/14/1993	Chang et al.	
	B170	US-5,286,958	02/15/1994	Smeets	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ <i>(if known)</i>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

--	--

EXAMINER SIGNATURE:

DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

